



***Maintenance***

***MAINTENANCE, STORAGE AND TRANSPORTATION OF EJECTION  
SEATS, CANOPIES, AND EGRESS EXPLOSIVE COMPONENTS***

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

OPR: 944 MXS/LGMCG (MSgt J. Van)  
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This instruction implements AFPD 21-1, *Managing Aerospace Equipment Maintenance*, explosive safety standards and establishes policies and procedures for utilization of the egress facility and personnel. It applies to all personnel responsible for directing, controlling, preparing, scheduling, and performing maintenance within the 944th Fighter Wing.

***SUMMARY OF REVISIONS***

This revision increases the number of workers during explosive operations (paragraph 7.2.); changes explosive limits (paragraph 7.3.); adds Metro type vehicles for explosive transportation (paragraph 8.3.); and adds and reorganizes text (paragraphs 8.4. through 9.2.). An asterisk (\*) indicates revisions from previous edition.

**1. Procedures:**

1.1. All canopy or canopy/seat removals and installations will be accomplished inside a maintenance hangar (hangar 1022 is equipped with an overhead hoist). If canopy/seat removal/installation is required during aircraft phased inspection, inspection section personnel will ensure the area is clear of unnecessary equipment; no power is applied or will be applied to the aircraft; and no other maintenance is performed in the cockpit area during egress maintenance.

1.2. Except for emergencies, aircraft will not be towed when the canopy actuator is disconnected and the canopy remains installed.

**2. Maintenance:**

2.1 All major egress maintenance and inspections will be performed in the egress maintenance section.

2.1.1. The 302d Fighter Squadron (FS) personnel are responsible for canopy transparency cleaning/polishing IAW applicable technical directives. Transparency cleaning will be accomplished as required.

2.1.2. All canopy transparency discrepancies and serviceability will be determined by the designated 302 FS Operations Officer, flight crewmember, or egress personnel only.

2.1.3. Qualified egress personnel will observe egress augmentees at all times.

2.1.4. All tasks will follow procedures of the applicable technical order (T.O.) or job guide.

**3. Aircraft Configuration.** D-model aircraft will have the left-hand 370-gallon external fuel tank removed if the utility crane will be used to remove seats/canopy. (Removal by overhead hoist does not require fuel tank removal.)

**4. Cannibalization.** All cannibalizations that require explosive items to be transferred including F-16 canopies must be approved by the 944<sup>th</sup> Maintenance Squadron Commander and 302 FS Maintenance Officer. Advance Concept Ejection System (ACES) II seats will not be cannibalized.

## **5. Time Changes:**

5.1. 302 FS Plans and Scheduling will:

5.1.1. Forecast up to 6 months beyond the earliest time change due date and schedule aircraft allowing as many item time changes as possible with one seat removal.

5.1.1.1. Schedule items throughout the applicable month due to alleviate a “bottleneck” effect during the last week of the month.

5.1.1.2. Schedule seat/canopy 36-month inspections concurrent with time change items, if due within the 6-month period.

**6. Foreign Objects (F.O.).** 302 FS personnel will raise the seat electrically for a thorough and extensive search when foreign objects are either confirmed or suspected to be in the cockpit prior to requesting egress maintenance. Egress personnel will be informed of specific item(s) lost or missing.

## **7. Safety Requirements:**

7.1. Non-egress personnel will not be allowed access to enter the cockpit area when egress maintenance is in progress.

\*7.2. During explosive operations, the following personnel limits will be in effect in the egress maintenance area:

	<i>Maximum</i>	<i>Minimum</i>
Supervisors:	2	1
Workers:	10	1
Casuals:	2	0

\*7.3. Explosive Limits. See Explosive License.

7.4. Personnel will wear protective clothing as directed by applicable T.O. or Air Force Occupational Safety and Health (AFOSH) Standard.

## **8. Transportation:**

8.1. Ejection seats will be transported by seat dollies. All safety devices, caps, and plugs will be installed during transport.

8.2. Canopies will be transported on canopy dollies. All safety devices, caps, and plugs will be installed during transport.

\*8.3. Explosives will be transported only on base in an authorized military vehicle. Minimum essential personnel and limited quantities of Hazard Class/Division 1.3 or 1.4 explosives may be transported between maintenance facilities and the munitions storage area in a Metro type vehicle.

\*8.4. Explosives will be secured in the vehicle to prevent movement and or damage during transport. Precautions will be taken to prevent item to item contact, ammo cans with a padded inside may be used. Catapults will be secured with hold down straps. Vehicle will have the proper Department of Transportation placards displayed. The explosives-laden vehicle will be equipped with two serviceable portable 2A:10BC rated fire extinguishers. Utilize chocks when loading or unloading munitions.

## **\*9. Storage:**

\*9.1. Canopies, seats, and explosive items will be stored in the egress section's explosive storage area and will be identified by AFTO Form 350, **Repairable Item Processing Tag** or AF Form 2005, **Issue/Turn-In Request**.

\*9.2. Base Fire Department will be notified of all fire symbol changes.

## **10. Emergency Procedures:**

10.1. In the event of an explosive incident or accident:

10.1.1. If fire is involved, stop all work in the immediate area and evacuate all nonessential personnel a minimum of 600 feet for Class/Division 1.3 explosives and a minimum of 300 feet for Class/Division 1.4 explosives.

10.1.2. Do not disturb anything at the scene unless it is a hazard to personnel or equipment.

10.1.3. Notify the flightline expediter and Maintenance Operations Center (MOC) of the type and location of accident.

10.2. 56th Fighter Wing EOD will be notified of any munitions in an unsafe or unknown condition.

CRAIG S. FERGUSON, Colonel, USAFR  
Commander

## Attachment 1

### GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

#### *References*

AFI 21-101, *Maintenance Management of Aircraft*

AFI 21-112, *Aircraft Egress Systems Maintenance*

AFM 91-201/AFRC Sup 1, *Explosive Safety Standard*

AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*

LAFBI 91-2015, *Explosive Hazard Notification*

T.O. 11A-1-46, *Fire Fighting Guidance, Transportation, and Storage*

T.O. 13A5-56-11, *Operation and Maintenance Instructions Escape System Assemblies*

T.O. 16W2-5-2, *Maintenance Instructions F-16C Canopy Assembly*

T.O. 16W2-6-2, *Maintenance Instructions F-16D Canopy Assembly*

#### *Abbreviations and Acronyms*

**ACES** – Advance Concept Ejection System

**AFI** - Air Force Instruction

**AFOSH** – Air Force Occupational Safety and Health

**AFPD** – Air Force Policy Directive

**AFRCI** – Air Force Reserve Instruction

**AFTO** – Air Force Technical Order

**EOD** – Explosive Ordinance Disposal

**F.O.** – Foreign Objects

**FS** – Fighter Squadron

**IAW** – In accordance with

**LAFBI** – Luke Air Force Base Instruction

**MOC** – Maintenance Operations Center

**T.O.** – Technical Order